

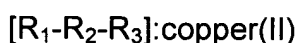
CLAIMS

What is claimed is:

1. A composition comprising at least one peptide copper complex and 6-amino-1,2-dihydro-1-hydroxy-2-imino-4-piperidinopyrimidine, wherein the at least one peptide copper complex has the formula:



or the formula:



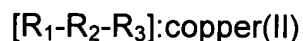
and wherein R_1 is an amino acid or an amino acid derivative; R_2 is histidine, arginine or a derivative thereof; and R_3 is a chemical moiety bonded to the R_2 moiety by an amide or peptide bond.

2. The composition of claim 1 wherein the at least one peptide copper complex has the formula:



wherein R_1 is an amino acid or an amino acid derivative, and R_2 is histidine, arginine or a derivative thereof.

3. The composition of claim 1 wherein the at least one peptide copper complex has the formula:



wherein R₁ is an amino acid or an amino acid derivative; R₂ is histidine, arginine or a derivative thereof; and R₃ is a chemical moiety bonded to the R₂ moiety by an amide or peptide bond.

4. The composition of claim 3 wherein R₃ is at least one amino acid or amino acid derivative bonded to R₂ by a peptide bond.

5. The composition of claim 3 wherein R₃ is a chemical moiety bonded to R₂ by an amide bond.

6. The composition of claim 5 wherein R₃ is -NH₂, an alkylamino moiety having from 1-20 carbon atoms, or an arylamino moiety having from 6-20 carbon atoms.

7. The composition of claim 1 wherein the ratio of peptide to copper in the at least one peptide copper complex ranges from 1:1 to 3:1.

8. The composition of claim 1, further comprising a vehicle rendering the composition suitable for intradermal injection.

9. The composition of claim 1, further comprising an inert and physiologically-acceptable carrier or diluent.

10. The composition of claim 9, further comprising a penetration enhancement agent, a surface active agent, or a mixture thereof.

11. The composition of claim 9, further comprising a sunscreen agent, a skin conditioning agent, a skin protectant, an emollient, a humectant, a hair conditioning agent, or a mixture thereof.

12. The composition of claim 1 wherein the at least one peptide copper complex and 6-amino-1,2-dihydro-1-hydroxy-2-imino-4-piperidinopyrimidine are encapsulated in a liposome or microsphere adapted to aid in their delivery to hair follicles of a patient, or to enhance the stability of the composition.

13. The composition of claim 1 wherein the at least one peptide copper complex and 6-amino-1,2-dihydro-1-hydroxy-2-imino-4-piperidinopyrimidine are formulated in an instrument adapted to effect their delivery to hair follicles of a patient via iontophoresis.

14. The composition of claim 1 wherein the 6-amino-1,2-dihydro-1-hydroxy-2-imino-4-piperidinopyrimidine and the at least one peptide copper complex are formulated for delivery to hair follicles of a patient, where the delivery is enhanced by ultrasound.

15. The composition of claim 1 wherein the 6-amino-1,2-dihydro-1-hydroxy-2-imino-4-piperidinopyrimidine and the at least one peptide copper complex are formulated for application to the skin after a treatment to remove or partially remove the stratum corneum thereof.

16. The composition of claim 1 wherein the composition is in the form of a liquid, a cream, a suspension, a gel, an emulsion, a lotion, or an oil.

17. A method for stimulating the growth of hair in a patient, comprising topically, or via intradermal injection, administering to areas of the patient's skin in need thereof a stimulatory effective amount of the composition of claim 1.

18. The method of claim 17 wherein the patient has a hair-loss affliction that is androgenetic alopecia, alopecia areata, or secondary alopecia.

19. A method for arresting and reversing androgenetic alopecia comprising topically, or via intradermal injection, administering to the scalp of a patient in need thereof, in a continued and periodic fashion, an effective amount of the composition of claim1.